

EPA / EPO / OEB D - 80298 München 089 / 2399 - 0 523 656 epmu d

Europäisches Patentamt

European Patent Office Office européen des brevets

EPA/EPO/OEB · D-80298 München

Anmelder / Applicant / Demandeur

DEGUSSA AG Intellectual Property Management PATENTE und MARKEN Standort Hanau Postfach 13 45

63403 Hanau

Nr. der Anmeldung / Application No. / Demande de brevet n	7
PCT/EP 2005 / 0 0 2 5 5 6	u
Tag des Eingangs / Date of receipt / Date de réception	
10. 63 05	
Zeichen des Anmelders / Vertreters – Applicant / Representative ref. No. – Référence du demandeur ou du mandataire	1
040067 AM	

Datum / Date

09.03.2005

Empfangsbescheinigung / Receipt for documents / Récépissé de documents

Das Europäische Patentamt bescheinigt hiermit den Empfang folgender Dokumente : The European Patent Office hereby acknowledges the receipt of the following : L'Office européen des brevets accuse réception des documents indiqués ci-dessous :

DEGUSSA AG

		,				
A.	Inter appli	nationale Anmeldung / International cation / Demande internationale	Stückzahl / No. of copies / Nombre d'exemplaires	Ø	Kopie der allgemeine Copy of general pow Copie du pouvoir gér	er of attorney (AV 43529)
	X	Antrag / Request / Requête		凶	Prioritätsbeleg(e) Priority document(s)	(1 document)
	X	Beschreibung (ohne Sequenzprotokollteil Description (excluding sequence listing par	3 .		Document(s) de prior	
	125	Description (sauf partie réservée au listage des séquences)	3		Gesonderte Angaber Mikroorganismen od Material	ı zu hinterlegten er anderem biologischen
	\boxtimes	Patentansprüche / Claim(s) / Revendication	(s)		Separate indications	concerning deposited micro-
	X	Zusammenfassung / Abstract / Abrégé				concernant des micro-
	X	Zeichnung(en) / Drawing(s) / Dessin(s)	3		•	matérial biologique déposés
	X	Sequenzprotokollteil der Beschreibung Sequence listing part of description Partie de la description réservée au listage des séquences	3	X	Nucleotide and/or am computer readable for Listage des séquence	en in computerlesbarer Form nino acid sequence listing in orm es de nucléotides ou d'acides
		Beigefügte Unterlagen / Accompanying items / Eléments joints		ΚŃ	Abbuchungsauftrag	échiffrable par ordinateur
В.		efügte Dokumente / Accompanying ments / Documents joints			Debit order Ordre de débit	Währung/Currency/Monnaie Betrag/Amount/Montant EUR 3.408.00
		Blatt für die Gebührenberechnung Fee calculation sheet			Scheck Cheque Chèque	Ausfüllung freigestellt/ Optional/facultatif
		Feuille de calcul des taxes Gesonderte unterzeichnete Vollmacht Separate signed power of attorney		Ø	Sonstige Unterlagen Other documents (sp Autres documents (p	pecify)
Die	e dena	Pouvoir distinct signé innten Unterlagen sind am oben genannten	Tag eingegangen F)ie in (PCT-EASY-Diskette	III) des PCT-
		armulara DO/404 anananaharan Distantian				

Antragsformulars RO/101 angegebenen Blattzahlen wurden bei Eingang nicht geprüft. Die Anmeldung hat die ebenfalls oben angeführte Anmeldenummer erhalten / The said items were received on the date indicated above. No check was made on receipt that the number of sheets indicated in the check list (box VIII) of the PCT Request Form RO/101 was correct. The application has been assigned the above-indicated application number / Les documents mentionnés ont été reçus à la date indiquée. L'exactitude du nombre de feuilles indiqué au bordereau (cadre VIII) du formulaire de requête PCT RO/101 n'a pas été contrôlée lors du dépôt. Le numéro figurant ci-dessus a été attribué à la demande de brevet



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DEGUSSA A	٩G					
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PATENTE U				Tag des Eing	angs .	/ Date of receipt / Date de réception
Standort Ha	nau					
Postfach 13	45			П		
				Zeichen des	Anme	Iders / Vertreters - Applicant / Representative
63403 Hana	u					e du demandeur ou du mandataire
				040067 AM		
			1	040007 AW		
	An	melde	er / Applicant / Demandeur : DEGUSSA AG			Datum / Date 09.03.2005
	En	npfa	ngsbescheinigung / Receipt for doc	cuments / Ré	cépis	ssé de documents
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			ppäische Patentamt bescheinigt hiermit den Er ppean Patent Office hereby acknowledges the			
			européen des brevets accuse réception des de			
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	A.			tückzahl / No. of	ΕŹ	Kopie der allgemeinen Vollmacht
		appli	cation / Demande internationale	copies / Nombre	\boxtimes	Copy of general power of attorney (AV 43529)
		,		d'exemplaires	-	Copie du pouvoir général
		\square	Antrag / Request / Requête	1		Prioritätsbeleg(e)
				•	X	
		X	Beschreibung (ohne Sequenzprotokollteil Description (excluding sequence listing part)	3		Document(s) de priorité
			Description (excluding sequence listing part) Description (sauf partie réservée au listage			Gesonderte Angaben zu hinterlegten
			des séquences)	_		Mikroorganismen oder anderem biologischen
				3		Material
		\mathbf{X}	Patentansprüche / Claim(s) / Revendication(s)			Separate indications concerning deposited micro- organism or other biological material
		XÍ	Zusammenfassung / Abstract / Abrégé	3		Indications séparées concernant des micro-
			•	3		organismes ou autre matérial biologique déposés
		\boxtimes	Zeichnung(en) / Drawing(s) / Dessin(s)			-
			Sequenzprotokoliteil der Beschreibung	3		Protokoll der Nucleotid- und/oder Aminosäuresequenzen in computerlesbarer Form
		Χĺ	Sequence listing part of description		X	Nucleotide and/or amino acid sequence listing in
		ىجى	Partie de la description réservée au listage		ركا	computer readable form
			des séquences			Listage des séquences de nucléotides ou d'acide
			Reigefügte Unterlagen / Assembassis-			aminés sous forme déchiffrable par ordinateur
		ш	Beigefügte Unterlagen / Accompanying items / Eléments joints			Abbuchungsauftrag
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	В.		efügte Dokumente / Accompanying		_	Ordre de débit Betrag/Amount/Montant
		docu	ments / Documents joints			Scheck EUR 3.408,00
			Platt für die Cohübrenherenhaung			Cheque Ausfüllung freigestellt/
			Blatt für die Gebührenberechnung Fee calculation sheet			Chèque Optional/facultatif
		ш	Feuille de calcul des taxes			·
					ΚŃ	Sonstige Unterlagen (einzeln aufführen)
			Gesonderte unterzeichnete Vollmacht		\mathbf{X}	Other documents (specify) Autres documents (préciser)
		Ш	Separate signed power of attorney			
			Pouvoir distinct signé			PCT-EASY-Diskette

Die genannten Unterlagen sind am oben genannten Tag eingegangen. Die in der Kontrolliste (Feld VIII) des PCT-Antragsformulars RO/101 angegebenen Blattzahlen wurden bei Eingang nicht geprüft. Die Anmeldung hat die ebenfalls oben angeführte Anmeldenummer erhalten / The said items were received on the date indicated above. No check was made on receipt that the number of sheets indicated in the check list (box VIII) of the PCT Request Form RO/101 was correct. The application has been assigned the above-indicated application number / Les documents mentionnés ont été reçus à la date indiquée. L'exactitude du nombre de feuilles indiqué au bordereau (cadre VIII) du formulaire de requête PCT RO/101 n'a pas été contrôlée lors du dépôt. Le numéro figurant ci-dessus a été attribué à la demande de brevet

0	For receiving Office use only		
0-1	International Application No.		
0-2	International Filing Date		
0-3	Name of receiving Office and "PCT International Application"		
0-4	Form PCT/RO/101 PCT Request		
-	•		
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.169)	
0-5	Petition		
	The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty		
0-6	Receiving Office (specified by the applicant)	European Patent Office (EPO) (RO/EP)	
0-7	Applicant's or agent's file reference	040067 AM	
ī	Title of Invention	NITRILE HYDRATASES FROM METAGENOME LIBRARIES	
II	Applicant		
II-1	This person is	applicant only	
11-2	Applicant for	all designated States except US	
11-4	Name	DEGUSSA AG	
II-5	Address	Bennigsenplatz 1	
		40474 Düsseldorf	
		Germany	
11-6	State of nationality	DE	
11-7	State of residence	DE	
11-8	Telephone No.	0 61 81 / 59-39 24	
II -9	Facsimile No.	0 61 81 / 59-43 04	
111-1	Applicant and/or inventor		
III-1-1	This person is	applicant and inventor	
III-1 -2	Applicant for	US only	
III-1-4	Name (LAST, First)	VERSECK, Stefan	
III-1-5	Address	Alicestrasse 8 63456 Hanau	
III-1 - 6	State of nationality	Germany	
III-1-7	State of residence	DE	
1-/	Otate of residence	DE	

III-2	Applicant and/or inventor			
III-2-1	This person is	applicant and inventor		
111-2-2	Applicant for	US only		
111-2-4	Name (LAST, First)	LIEBETON, Klaus		
III-2-5	Address	Heinrichstrasse 2a		
		64673 Zwingenberg		
		Germany		
III-2-6	State of nationality	DE		
111-2-7	State of residence	DE		
III-3	Applicant and/or inventor			
III-3-1	This person is	applicant and inventor		
III-3-2	Applicant for	US only		
III-3-4	Name (LAST, First)	ECK, Jürgen		
III-3-5	Address	Jakobsweg 48		
		64625 Bensheim		
		Germany		
III-3-6	State of nationality	DE		
111-3-7	State of residence	DE		
IV-1	Agent or common representative; or			
	address for correspondence			
	The person identified below is hereby/ has been appointed to act on behalf of	common representative		
	the applicant(s) before the competent International Authorities as:			
IV-1-1	Name	DEGUSSA AG		
IV-1-2	Address	Intellectual Property Management		
		PATENTE und MARKEN		
		Standort Hanau		
		Postfach 13 45		
		63403 Hanau		
	/	Germany		
IV-1-3	Telephone No.	0 61 81 / 59-39 24		
IV-1-4	Facsimile No.	0 61 81 / 59-43 04		
<u>v</u>	DESIGNATIONS			
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of			
	all Contracting States bound by the			
	PCT on the international filing date,			
	for the grant of every kind of protection available and, where			
	applicable, for the grant of both	·		
	regional and national patents.	·		

VI-1	Priority claim of earlier national application		
/I-1-1	Filing date	20 March 2004 (20.03.2004	1)
/I-1-2	Number	10 2004 013 842.7	
/I-1-3	Country	DE	
/11-1	International Searching Authority Chosen	European Patent Office (1	EPO) (ISA/EP)
/III	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
/111-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
X	Check list	number of sheets e	lectronic file(s) attached
X-1	Request (including declaration sheets)	4	
X-2	Description (excluding sequence listing part)	32	_
X-3	Claims	3	-
X-4	Abstract	1	
X-5	Drawings	7	-
X-7a	Sub-total number of sheets	47	
X-6a	Sequence listing part of description	75	-
X-7	TOTAL	122	

Original (for SUBMISSION)

	Accompanying Items	paper document(s) attached	electronic file(s) attached	
IX-8	Fee calculation sheet		-	
X-11	Copy of general power of attorney	reference no. AV 43529	_	
X-13	Priority document(s)	Item(s) VI-1	_	
X-16(A)	Sequence listing in computer readable form			
IX-16(A) -(i)	copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application)	-	1 Diskette	
X-17	PCT-SAFE physical media	-		
X-19	Figure of the drawings which should accompany the abstract	7		
IX-20	Language of filing of the international application	English		
X-1	Signature of applicant, agent or common representative	SHE E	\ so \	
X-1-1	Name	DEGUSSA AG		
X-1-2	Name of signatory	i. V. Dr. Stefan Retzow		
X-1-3	Capacity	AV 43529		

FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by	_	
	the International Bureau		
	<u> </u>		

PCT (ANNEX - FEE CALCULATION SHEET)
Original (for SUBMISSION)
(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	T T		
0-1	International Application No.			
0-1	Date stamp of the receiving Office			
		<u> </u>	·	
0-4	Form PCT/RO/101 (Annex)	T		
0-4	PCT Fee Calculation Sheet			
0-4-1	Prepared Using	PCT-SAFE [EAS	Y model	
	,		(Build 0002.16	9)
0-9	Applicant's or agent's file reference	040067 AM	<u>-`</u>	
2	Applicant	DEGUSSA AG		
12	Calculation of prescribed fees	fee amount/muliplier	Total amounts (EUR)	
12-1	Transmittal fee T		100	
12-2-1	Search fee S	 	1550	
12-2-2	International search to be carried out by	EP		
	International filing fee		-	
12.0	(first 30 sheets)	902		
12-4	Remaining sheets	92	<u>'</u>	
12-5	Additional amount (X	10	1	
12-6	Total additional amount 12	920	₫	
12-7	i1 + i2 = I	1822		
12-12	EASY Filing reduction R	-64		
12-13	Total International filing fee (i-R)		1758	
12-14	Fee for priority document			
	Number of priority documents requested	0		
12-15	Fee per document (X	30	1	
12-16	Total priority document fee:			
12-17	TOTAL FEES PAYABLE (T+S+I+P)		3408	
12-19	Mode of payment	authorization	to charge dep	osit account
12-20	Deposit account instructions			
	The receiving Office	European Pate	nt Office (EPO) (RO/EP)
12-20-1	Authorization to charge the total fees indicated above			
12-20-2	Authorization to charge any deficiency of credit any overpayment in the total fees indicated above			
12-21	Deposit account No.	28000215	<u> </u>	
12-22	Date		(09.03.2005)	
12-23	Name and signature	DEGUSSA AG i. 43529)	V. Dr. Stefan	Retzow (AV

The present invention is concerned with the preparation of novel nitrile hydratases. These latter are preferably obtained from nonculturable organisms by means of a PCR-based screening, in metagenome DNA libraries, using special degenerate primers.

13-2-8	Validation messages Fees	Green? Please confirm that fee schedule utilized is the latest available
13-2-9	Validation messages Payment	Green? Please ensure that you have a valid deposit account with the receiving Office selected.

BUNDESREPUBLIK DEUTSCHLAND



Prioritätsbescheinigung über die Einreichung einer Patentanmeldung

Aktenzeichen:

10 2004 013 842.7

Anmeldetag:

20. März 2004

Anmelder/Inhaber:

Degussa AG, 40474 Düsseldorf/DE

Bezeichnung:

Nitrilhydratasen aus Metagenombibliotheken

IPC:

C 12 N 9/88

Die angehefteten Stücke sind eine richtige und genaue Wiedergabe der ursprünglichen Unterlagen dieser Patentanmeldung.

München, den 23. Februar 2005

Deutsches Patent- und Markenamt

Der Präsident

Im Auftrag

vvenner



A 9161 03/00 EDV-L

ALLGEMEINE VOLLMACHT GENERAL AUTHORISATION POUVOIR GENERAL

if requested to be returned by the EPO to the AUTHORISOR Sur demande, a renvoyer par l'OEB au MANDANT

Nr. der allgemeinen Vollmacht/General Authorisation No. N° du pouvoir général

43529

2	Ich (Wir)/I (We)/Je (Nous)		Herrn
	Degussa AG		Dr. Stefan Retzow
	Bennigsenplatz 1		Degussa A6
	D-40474 Düsseldorf	y Management	Intellectual Propert
	D-404/4 DUSSELGOTI		Patente und Marken
			Standort Wolfgang
			Postfach 1345
			D-63403 Hanau
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	Herrn		
· :	Dr. Stefan Retzow	, , , , , , , , , , , , , , , , , , ,	
	European Patent Attorney		
		D	
	Zustellungsanschrift:	Degussa AG	
		TuteTTectnaT blo	perty Management
		Patente und Mark	
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4	mich (uns) in den durch das Europäische Patentübereinkommen gesc	haffenen Verfahren in allen mei	nen (unseren) Patentangelegenheiten zu vertreten.
	alle Handlungen für mich (uns) vorzunehmen und Zahlungen für mic to represent me (us) in all proceedings established by the European	ii lunsi in Empiano zii nehmer	
٠	payment in the tour benan.	• •	
	a me (nous) représenter pour ce qui concerne toutes mes (nos) affaires	de brevet dans toute procédure	e instituée par la Convention sur le brevet européen
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* '	Die Vollmacht gilf auch für Verfahren nach dem Vertrag über di This authorisation shall also apply to the same extent to any p		
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ı	Weitere Vertreter sind auf einem gesonderten Blatt angegeben.	/ Additional representatives in	dicated on cumplementary share
	Les autres mandataires sont mentionnés sur une feuille supplé	mentaire.	dicated on supplementary sneet.
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	Prière de renvoyer la copie jaune au mandant, munie du nº du	pouvoir général.	
	Ort/Place/Lieu Hanau		
.	Ont/Place/Lieu Hanau	Datum/Date 2	6.03.2001
	Unterschrift(en) / Signature(s)	1	
	Degussa AG /		
	ppa. / ppa.	WD1/	
	Dr. Mátthias Schäfer Dr. V	Volfgang Weber	
.	Prokurist Proku		
7	Das Formblatt muß vom (von den) Vollmachtneher(n) (hei juristischen Bergenen.		händig unterzeichnet sein Nach der Listeranbeite biese der
1	(die) Namen des (der) Unterzeichneten mit Schreibmaschine wiederholen (bei angeben).	uristischen Personen die Stellung	des Unterschriftsberechtigten innerhalb der Gesellschaft
	The form must bear the personal signature(s) of the authorisor(s) (in the case of le	001 000000 About 1886 - 187	
	b a case of legal percents, the (then) position v	num me company.	
	Le formulaire doit être signé de la propre main du (des) mandant(s) (dans le cas après la signature, le (les) nom(s) du (des) signataire(s) en mentionnant, dans	de personnes morales, de la personi	ne ayant qualité pour signer). Veuillez ajouter à la machine,
	United the second	or personnes morales, ses	treate) fortetions au sein de la société.